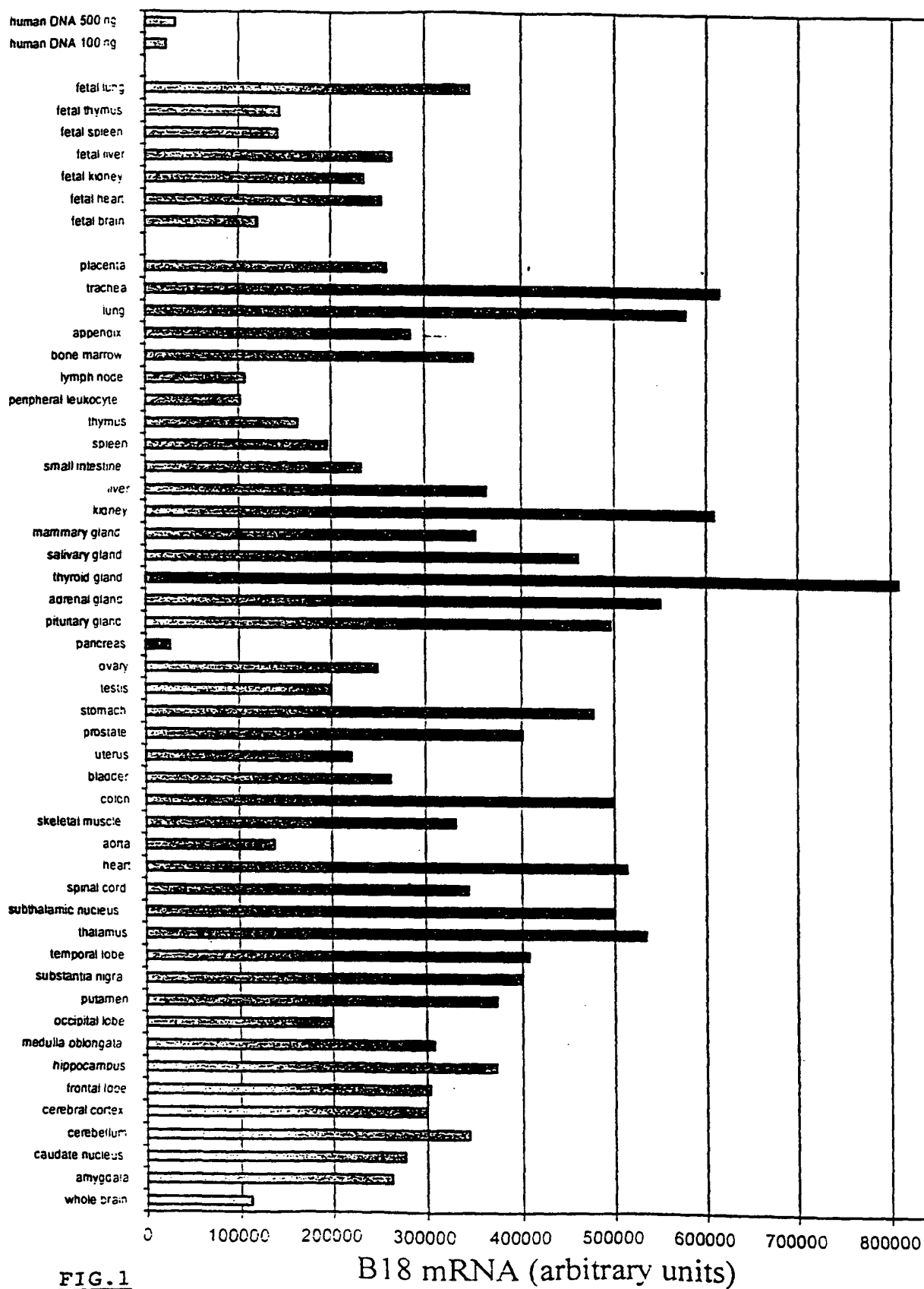
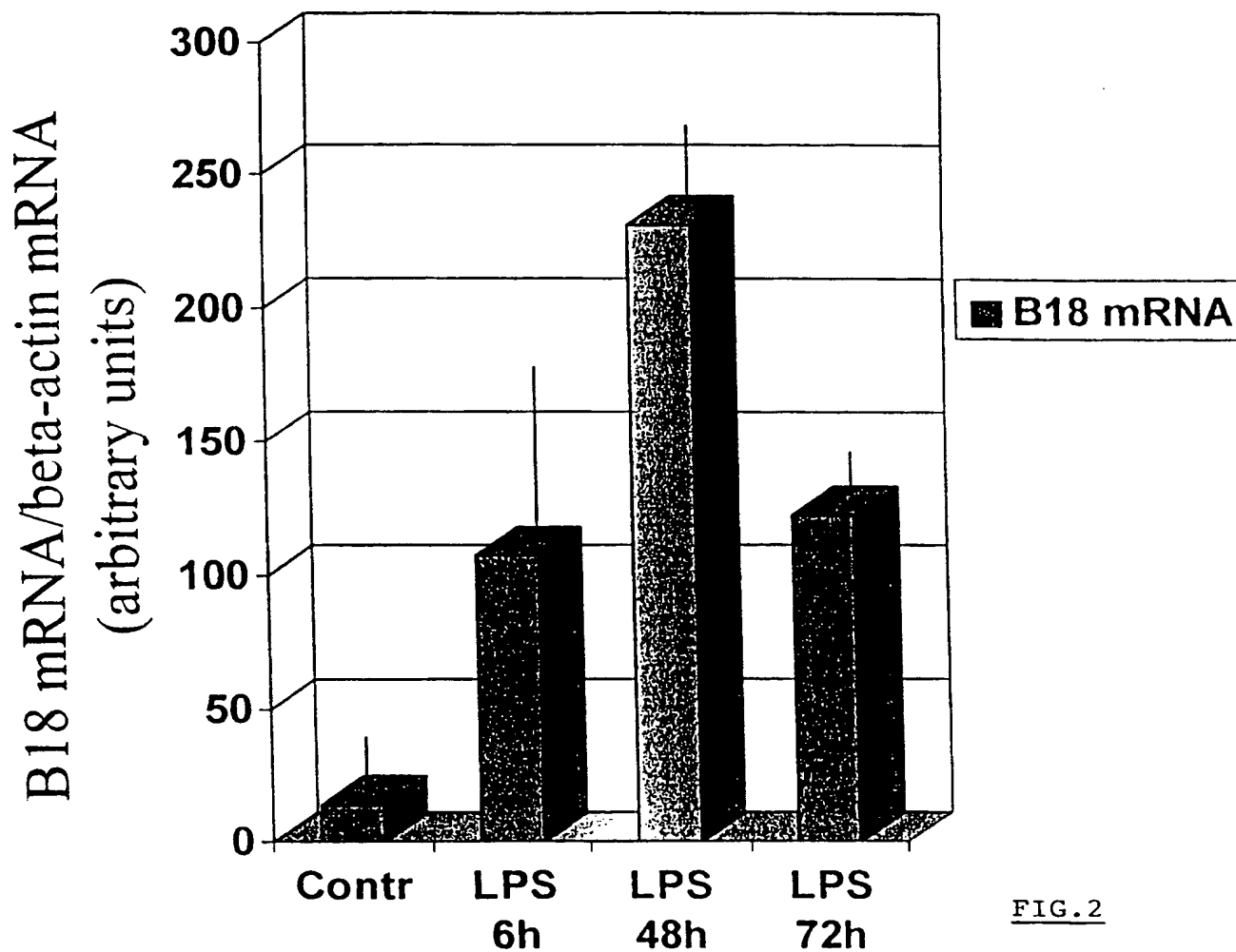


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B18 mRNA/beta-actin mRNA
(arbitrary units)

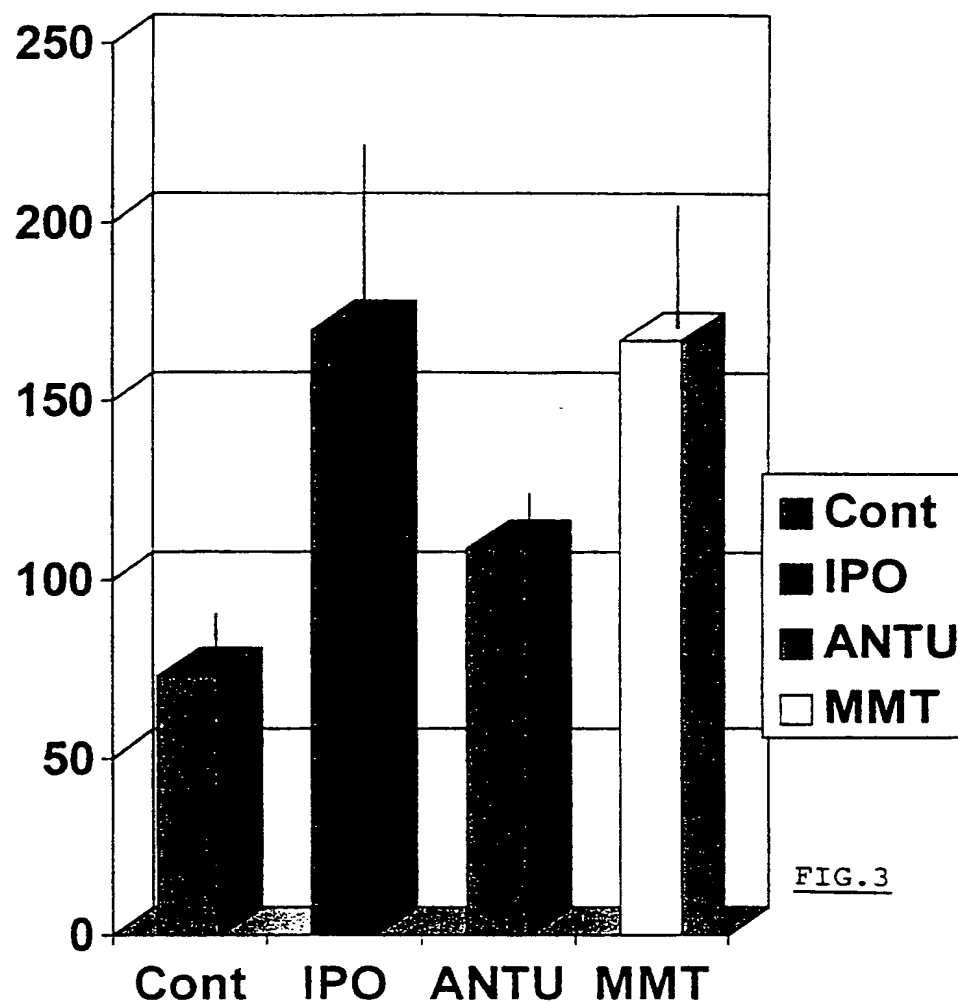
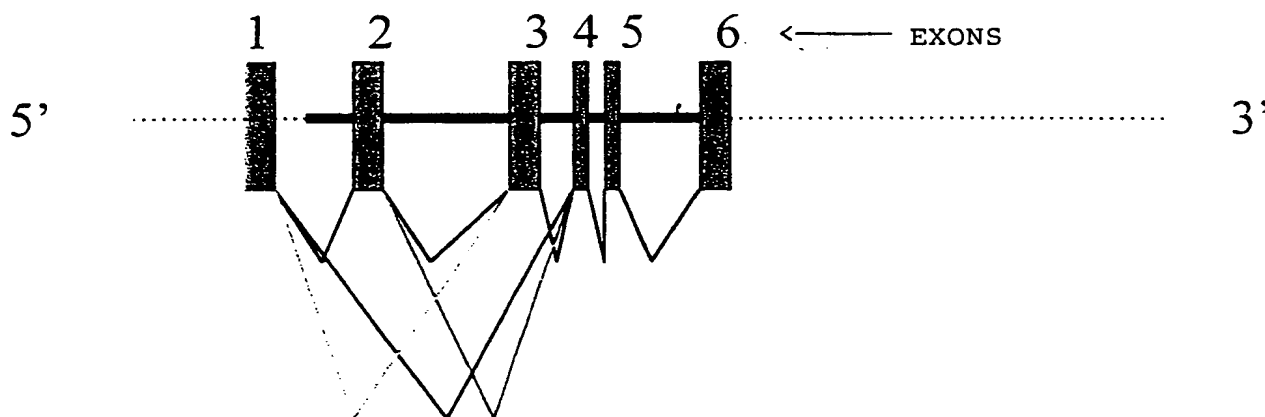
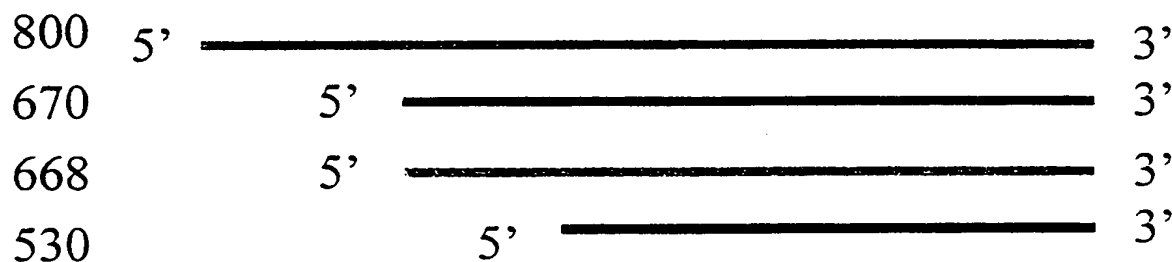


FIG.3

Gene (chromosome 11q12-13)



mRNAs



Proteins

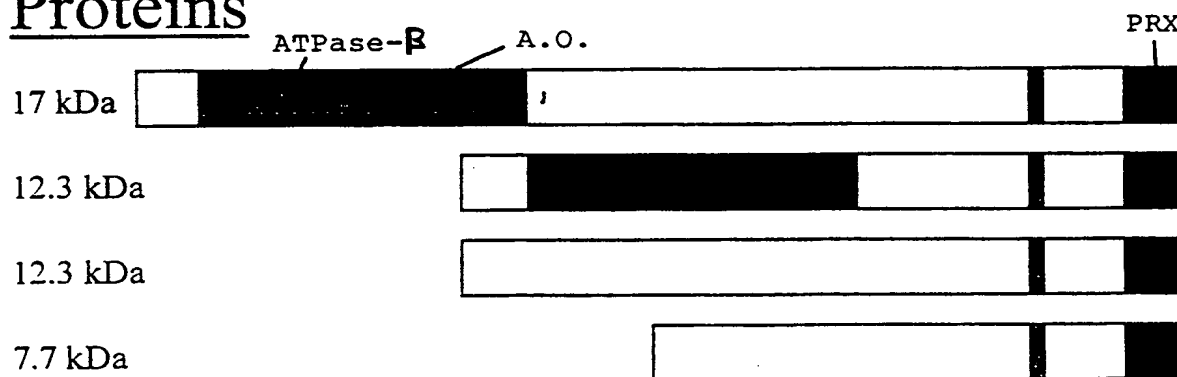


FIG. 4

CLUSTAL V alignment of human and rat B18 amino acid sequences (Identity: 90%, Homology: 97.5%):

B18hum	MAPIKVGDAIPAVEVFEGEPGNKVNLAELFKGKKGVLFVPGAFTPGCSK	= SEQIDNO1
B18rat	MAPIKVGDTIPSVEVFEGEPGKKVNLAELFKDKKGVLFVPGAFTPGCSK	
	*****.***.*****.*****.*****.*****.*****	
B18hum	THLPGFVEQAEALKAKGVQVVACLSVNDAFVTGEWGRAHKAEGKVRLAD	
B18rat	THLPGFVEQAGALKAKGAQVVACLSVNDVFVTAEWGRAHQAEQVQLAD	FIG.5a
	*****.*****.*****.*****.*****.*****.*****	
B18hum	PTGAFGKETDLLLDDSLVSIFGNRRLKRFSMVVDGIVKALNVEPDGTGL	
B18rat	PTGAFGKETDLLLDDSLVSLFGNRRLKRFSMVIDKGVVKALNVEPDGTGL	
	*****.*****.*****.*****.*****.*****.*****	
B18hum	TCSLAPNIISQL	
B18rat	TCSLAPNILSQL	
	*****.***	

CLUSTAL V alignment of human and mouse B18 amino acid sequences (Identity: 91%, Homology: 96%):

B18hum	MAPIKVGDAIPAVEVFEGEPGNKVNLAELFKGKKGVLFVPGAFTPGCSK
B18mouse	MAPIKVGDAIPSVEVFEGEPGKKVNLAELFKGKKGVLFVPGAFTPGCSK
	*****.*****.*****.*****.*****.*****.*****
B18hum	THLPGFVEQAEALKAKGVQVVACLSVNDAFVTGEWGRAHKAEGKVRLAD
B18mouse	THLPGFVEQAGALKAKGAQVVACLSVNDVFVIEEWGRAHQAEQVRLAD
	*****.*****.*****.*****.*****.*****.*****
B18hum	PTGAFGKETDLLLDDSLVSIFGNRRLKRFSMVVDGIVKALNVEPDGTGL
B18mouse	PTGAFGKETDLLLDDSLVSLFGNRRLKRFSMVIDNGIVKALNVEPDGTGL
	*****.*****.*****.*****.*****.*****.*****
B18hum	TCSLAPNIISQL
B18mouse	TCSLAPNILSQL
	*****.***

CLUSTAL V alignment of human and rat cDNA sequences (identity: 612/780, 78.5%):

B18hum	GCCAGGAGGCGGAGTGGAAGTGGCCGTGGGGCGGGTATGGGACTAGCTGG
B18rat	-----TG-----CGTC-----CTAGGCAG
	*** *** ****
B18hum	CGTGTGCGCCCTGAGACGCTCAGCGGGCTATATACTCGTCGGTGGGGCCG
B18rat	CATA---GCC---GGA---TCGGTGCTCCGTGCATCGGCTACTTGGAC--
	* * *** ** * * * * * * * * * *
B18hum	GCGGTCACTCTGCGGCAGCGGCAGCAAGACGGTGCAGTGAAGGAGAGTGG
B18rat	-----GTGCGTGGCAGGCAGAGCAGGCCGG---AAAGGAGCAGGTTGG
	*** * * * * * * * * * * * * * * *

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FIG.5b

B18hum GCGTCTGGCGGGGTCCGCAGTTTCAGCAGAGCCGCTGCAGCCATGGCCCC
B18rat GAGTGTGGTGGGGCCCCGAGCTTCAGCAGTGCCGCGGTGACTATGGCCCC
* * * * *

B18hum AATCAAGGTGGGAGATGCCATCCCAGCAGTGGAGGTGTTTGAAGGGGAGC
B18rat GATCAAGGTGGGAGACACCATTCCCTCAGTGGAGGTATTTGAAGGGGAAC
* * * * *

B18hum CAGGGAACAAGGTGAACCTGGCAGAGCTGTTCAAGGGCAAGAAGGGTGTG
B18rat CTGGAAAGAAGGTGAACTTGGCAGAGCTGTTCAAGGACAAGAAAGGTGTT
* * * * *

B18hum CTGTTTGGAGTTCCTGGGGCCTTCACCCCTGGATGTTCCAAGACACACCT
B18rat TTGTTTGGAGTCCCTGGGGCATTACACCTGGCTGTTCCAAGACCCATCT
* * * * *

B18hum GCCAGGGTTTGTGGAGCAGGCTGAGGCTCTGAAGGCCAAGGGAGTCCAGG
B18rat GCCTGGGTTTGTGGAGCAAGCCGGAGCTCTGAAGGCCAAGGGAGCACAAAG
* * * * *

B18hum TGGTGGCCTGTCTGAGTGTTAATGATGCCTTTGTGACTGGCGAGTGGGGC
B18rat TGGTGGCCTGTCTGAGTGTTAATGATGTCTTCGTGACTGCAGAGTGGGGT
* * * * *

B18hum CGAGCCCACAAGGCGGAAGGCAAGGTTTCGGCTCCTGGCTGATCCCACTGG
B18rat CGAGCCCACCAGGCAGAAGGCAAGGTTTCAGCTCCTGGCTGACCCCACTGG
* * * * *

B18hum GGCCTTTGGGAAGGAGACAGACTTATTACTAGATGATTTCGCTGGTGTCCA
B18rat AGCTTTTGGAAAGGAGACAGATTTACTACTAGATGATTCTTTGGTGTCTC
* * * * *

B18hum TCTTTGGGAATCGACGTCTCAAGAGGTTCTCCATGGTGGTACAGGATGGC
B18rat TCTTTGGGAATCGTCGGCTAAAAAGGTTCTCCATGGTGATAGACAAGGGC
* * * * *

B18hum ATAGTGAAGGCCCTGAATGTGGAACCAGATGGCACAGGCCTCACCTGCAG
B18rat GTAGTAAAGGCACTGAACGTGGAGCCGGATGGCACAGGCCTCACCTGCAG
* * * * *

B18hum CCTGGCACCCAATATCATCTCACAGCTCTGAGGCCCTGGGCCAGATTACT
B18rat CCTGGCCCCCAACATCCTCTCACAACTCTGAGGCCCTGA-CCAGA--ATG
* * * * *

B18hum TCCTCCACCCCTCCCTATCTCACCTGCCCAGCCCTGTGCTGG-GGCCCTG
B18rat TCCTCTGACTCTCCC-ATCTCCTCCACCCAGCTCTGGGCCAAAGGCCAG
* * * * *

B18hum CA-----ATTGGAATG-----TTGGCCAGATTTCTGC
B18rat TACCTCCTTACCTGAGGGCCACTGGAATGGAACCTTGACAATATTTCTGC
* * * * *

B18hum AATAAACACTTGTGGTTTGC GGAAAAA-----
B18rat AATAAACAGTT-TAATTTGTGAAAAAAAAAAAAAAAAAAAA
* * * * *

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CLUSTAL V alignment of human and mouse cDNA sequences (Identity: 552/675, 81.8%):

FIG.5c

```
B18hum      GCCAGGAGGCGGAGTGGAAAGTGGCCGTGGGGCGGGTATGGGACTAGCTGG
B18mouse    -----

B18hum      CGTGTGCGCCCTGAGACGCTCAGCGGGCTATATACTCGTCGGTGGGGCCG
B18mouse    -----TGCTCCGTG-----CATCGACGTGCTTG
                      **** *          * * * * *

B18hum      GCGGTCAGTCTGCGGCAGCGGCAGCAAGACGGTGCAGTGAAGGAGAGTGG
B18mouse    GCAGGCAG-----AGCAGGCCGG---AAAGAAGCAGGTTGG
                      ** * * *          * * * * *

B18hum      GCGTCTGGCGGGGTCCGCAGTTTCAGCAGAGCCGCTGCAGCCATGGCCCC
B18mouse    GAGTGTGGCGGAGCCCGCAGCTTCAGCAGCTCCGCGGTGACCATGGCCCC
                      * * * * * * * * * * * * * * *

B18hum      AATCAAGGTGGGAGATGCCATCCCAGCAGTGGAGGTGTTTGAAGGGGAGC
B18mouse    GATCAAGGTGGGAGATGCCATTCCTCAGTGGAGGTATTTGAAGGGGAAC
                      * * * * * * * * * * * * * * *

B18hum      CAGGGAACAAGGTGAACCTGGCAGAGCTGTTCAAGGGCAAGAAGGGTGTG
B18mouse    CGGGAAAGAAGGTGAACCTGGCAGAGCTGTTCAAGGGCAAGAAAGGTGTT
                      * * * * * * * * * * * * * * *

B18hum      CTGTTTGGAGTTCCTGGGGCCTTCACCCCTGGATGTTCCAAGACACACCT
B18mouse    TTGTTTGGAGTCCCTGGGGCATTACACCTGGCTGTTCTAAGACCCACCT
                      * * * * * * * * * * * * * * *

B18hum      GCCAGGGTTTGTGGAGCAGGCTGAGGCTCTGAAGGCCAAGGGAGTCCAGG
B18mouse    GCCTGGGTGTTGTGGAGCAAGCTGGAGCTCTGAAGGCTAAGGGAGCGCAGG
                      *** * * * * * * * * * * * * * * *

B18hum      TGGTGGCCTGTCTGAGTGTTAATGATGCCTTTGTGACTGGCGAGTGGGGC
B18mouse    TGGTGGCCTGTCTGAGCGTTAATGACGTCTTTGTGATTGAAGAGTGGGGT
                      * * * * * * * * * * * * * * *

B18hum      CGAGCCCACAAGGCGGAAGGCAAGGTTTCGGCTCCTGGCTGATCCCCTGG
B18mouse    CGAGCCCACCAGGCAGAAGGCAAGGTTTCGGCTCCTGGCTGACCCCCTGG
                      * * * * * * * * * * * * * * *

B18hum      GGCCTTTGGGAAGGAGACAGACTTATTACTAGATGATTGCTGGTGTCCA
B18mouse    AGCCTTTGGGAAGGCGACAGACTTATTATTGGATGATTCTTTGGTGTCTC
                      * * * * * * * * * * * * * * *

B18hum      TCTTTGGGAATCGACGTCTCAAGAGGTTCTCCATGGTGGTACAGGATGGC
B18mouse    TCTTTGGGAATCGTCGGCTGAAAAGGTTCTCCATGGTGATAGACAACGGC
                      * * * * * * * * * * * * * * *

B18hum      ATAGTGAAGGCCCTGAATGTGGAACCAGATGGCACAGGCCTCACCTGCAG
B18mouse    ATAGTGAAGGCACTGAACGTGGAGCCAGATGGCACAGGCCTCACCTGCAG
                      * * * * * * * * * * * * * * *

B18hum      CCTGGCACCCAATATCATCTCACAGCTCTGAGGCCCTGGGCCAGATTACT
B18mouse    CCTGGCCCCCAACATCCTCTCCCAACTCTGAGGCCCTGG-CCAGATG---
                      * * * * * * * * * * * * * * *

B18hum      TCCTCCACCCCTCCCTATCTCACCTGCCAGCCCTGTGCTGGGGCCCTGC
B18mouse    TCCTCTGACTCTCC-ATCTCTCCACCCGGCTCT-----AGGCC----
                      * * * * * * * * * * * * * * *

B18hum      AATTGGAATGTTGGCCAGATTTCTGCAATAAACACTTGTGGTTTGCGGAA
B18mouse    ----AAAAGGCTCGGTACCTCCTTACTGGGAGC-CACGT-----
                      * * * * * * * * * * * * * * *
```